

## INDEX OF DRAWINGS



Department of  
Veterans Affairs



1. SPRINKLER DESIGN BASED ON FIRE PROTECTION DRAWINGS AND SPECIFICATIONS AS SUBMITTED BY THE M.E.P. ENGINEERS WILL BE SUBJECT TO AN INDEPENDENT REVIEW BY A CERTIFIED REVIEWER. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR THIS INDEPENDENT REVIEW.

2. ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE OR, NATIONAL CODES, RULES, ORDINANCES AND REGULATIONS INCLUDING THE AMERICAN DISABILITIES ACT (ADA) AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) GUIDELINES.

3. DO NOT PAINT ANY CAULKING OR SEALANTS WHICH ARE SUBJECT TO MOVEMENT - CONTROL JOINTS SHALL BE CAULKED AFTER PAINT AND SPECIAL COATING APPLICATIONS. PROVIDE CAULKING OR SEALANTS IN COLORS WHICH MATCH ADJACENT FINISHED SURFACE COLORS.

4. VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE FABRICATING ANY MATERIALS.

10. EXISTING CONSTRUCTION TO REMAIN THAT IS DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR RE-TORED.

11. IT IS THE INTENT OF THE DOCUMENTS TO INDICATE COMPLETE AND OPERATIONAL SYSTEMS (I.E. STRUCTURAL, HVAC, PLUMBING, ELECTRICAL, ETC.). THE CONTRACTOR SHALL PROVIDE THE SYSTEMS AS OPERATIONAL SYSTEMS WHICH COMPLY WITH APPLICABLE CODES AND REGULATIONS. THIS NOTE SHALL BE LIMITED TO THE SYSTEMS AS INDICATED BY THE DOCUMENTS AND SHALL NOT INCLUDE CHANGES TO THE SYSTEMS WHICH ALTER INDICATED CAPACITIES, OPERATIONAL CHARACTERISTICS, ETC.

12. THE GENERAL CONTRACTOR SHALL PROVIDE FIRE-RETARDANT TREATED 2X BLOCKING IN THE STUD CAVITY AT ALL LOCATIONS REQUIRED TO PROVIDE SLOTTED ANCHORAGE OF WALL SUPPORTED ITEMS INDICATED BY THE DRAWINGS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, AND KITCHEN EQUIPMENT. CONTRACTOR'S OPTION TO PREPARE THE STUD CAVITY BY THE DEPTH OF THE TYPICAL METAL STUDS AS BLOCKING UNLESS WORK BLOCKING IS SPECIFICALLY CALLED FOR BY THE MANUFACTURER.

17. THE CONTRACTOR IN CONJUNCTION WITH HIS WORK SHALL BE RESPONSIBLE TO PATCH AND REPAIR ALL EXISTING SUBSTRATES AND FINISHES TO REMAIN INCLUDING BUT NOT LIMITED TO EXISTING WALLS, FLOORS, BASES, WAINSCOTS, CEILINGS, WINDOWS, WINDOW TRIM, WOOD WORK, DOORS, FRAMES, ETC. (UNLESS INDICATED OTHERWISE) AND PREPARE AREAS AS REQUIRED FOR NEW FINISHES, WHERE WORK IS PERFORMED AND NO FINISH IS SPECIFICALLY INDICATED IN THE CONTRACT. THE CONTRACTOR IS TO PATCH REPAIR AND PAINT TO MATCH ALL EXISTING ADJACENT MATERIALS, FINISH AND PAINT ALL WORK TO PROVIDE A COMPLETE, FINISHED, WORKMANLIKE JOB, ALL SUBJECT TO THE APPROVAL OF THE C.O.T.R.

19. IN ADDITION TO SPECIFIC REQUIREMENTS, THE GENERAL INTENT OF PAINTING AND TRANSPARENT FINISHES IS AS FOLLOWS: WHERE SURFACES ARE INDICATED TO BE PAINTED OR TRANSPARENT FINISH APPLIED, ALL OPENINGS, NEW AND EXISTING INCLUDING WINDOWS, DOORS, FLOORS, ETC. SHALL BE PAINTED OR FINISHED IN CONJUNCTION WITH SURROUNDING WORK. WHERE SURFACES ARE NOT INDICATED TO BE PAINTED OR TRANSPARENT FINISH APPLIED IN THIS CONTRACT, ITEMS OF NEW WORK OR REPAIR WORK ONLY SUCH AS WALLS, CEILINGS, DOORS, FLOORS, ETC. SHALL BE PAINTED OR FINISHED TO MATCH EXISTING FINISHES. EXISTING ADJACENT FINISH SHALL REMAIN. SEE ROOM FINISH SCHEDULE AND FINISH LEGEND FOR FINISHES. CONTRACTOR SHALL VERIFY IN THE FIELD ALL FINISHES WITH THE C.O.T.R. PRIOR TO EXECUTION OF THE WORK.

20. ALL SUSPENDED ITEMS SUCH AS CEILINGS, DUCTS, PIPES, CONDUTS, ETC., SHALL BE SUSPENDED (ATTACHED) DIRECTLY TO STRUCT AND SHALL NOT BE ATTACHED OR ANCHORED TO EXISTING PLASTER, ACOUSTIC TILE, ETC.

21. ALL PENETRATIONS SUCH AS NEW OR EXISTING DUCTS, CONDUTS, PIPING, ELECTRICAL, OUTLETS, LIGHT SWITCHES, RECOILERS, ETC. SHALL BE PROPERLY PATCHED AND FINISHED TO MATCH EXISTING FINISHES. NEW CORRIDOR WALLS, SMOKE PARTITIONS, AND FLOOR SLABS SHALL BE SEALED TO PREVENT PASSAGE OF ANY SMOKE, FLAME, GASES, ETC.. SEE PLUMBING HVAC, FIRE PROTECTION, ELECTRICAL, ETC. DRAWINGS AND SPECIFICATIONS.

22. WHERE NEW CONSTRUCTION (I.E. DOORS, FRAMES, CASEWORK, EQUIPMENT, ETC.) IS INDICATED TO BE INSTALLED IN EXISTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE DIMENSIONS FOR PROPER FIT AND FOR ACCESS INTO THE BUILDING PRIOR TO SHOP DRAWING SUBMITTAL, ORDERING AND DELIVERING TO THE SITE.

[illegible]

**CONSULTANTS:**

**THP LIMITED**  
STRUCTURAL ENGINEER  
100 E. EIGHTH STREET  
CINCINNATI, OH 45202  
513.241.3222 P  
513.241.2981 F

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919.873.2211 P  
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RDC/JOHN POE ARCHITECTS

COVER SHEET

	Drawing Title
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Project Title	Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911
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05/03/2013  
Project No. **590-911**  
RDC/JPA Project No. 11004.0

137-G000

Hampton, Va



three inches = one foot  
one and one-half inches = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot



DEMOLITION PLAN KEY NOTES:

- FULL DEPTH SAWCUT EX. ASPHALT/CONCRETE
- REMOVE EXISTING VALLEY GUTTER
- REMOVE EXISTING TREE
- REMOVE EXISTING CURB AND GUTTER
- SEE ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS FOR WORK ASSOCIATED WITH EXISTING ELECTRICAL VAULTS AND DUCT BANKS AND THEIR INCORPORATION INTO PROPOSED STRUCTURE
- REMOVE AND RELOCATE EXISTING LIGHT FIXTURE AND ASSOCIATED CIRCUITRY OUTSIDE OF PROPOSED BUILDING FOOTPRINT
- SEE ELECTRICAL PLANS FOR DEMOLITION AND REROUTE OF EXISTING ELECTRICAL/COMMUNICATION FACILITIES.
- REMOVE EXISTING CROSS WALK STRIPING
- REMOVE EXISTING SUNROOM STRUCTURE. SALVAGE AND RELOCATE
- REMOVE EXISTING UTILITY STRUCTURE
- REMOVE THIS PORTION OF EXISTING PLANTING BEDS
- RELOCATE EXISTING TREE AS NECESSARY TO ALLOW FOR GRADING OPERATION AND PLACEMENT OF SIDEWALK
- CUT AND CAP EXISTING WATER MAIN IN THIS LOCATION.
- CONTRACTOR IS TO VERIFY THE LOCATION AND ELEVATION OF EXISTING GEOTHERMAL WELLS TO REMAIN IN FIELD PRIOR TO THE COMMENCEMENT OF GRADING OPERATIONS IN THE AREA. CONTRACTOR TO USE CAUTION WHEN PERFORMING GRUBBING ACTIVITIES IN AREA SO AS TO NOT DISTURB EXISTING WELLS.
- REMOVE AND RELOCATE EXISTING FIRE HYDRANT. SEE UTILITY PLAN FOR PROPOSED RELOCATION LOCATION.
- REMOVE EXISTING 42" HIGH WHITE RAILING.

EXISTING / DEMOLITION LEGEND

- SANITARY MANHOLE
- STORM MANHOLE
- CATCH BASIN
- CURB INLET
- ROUND CATCH BASIN
- ELECTRICAL/COMMUNICATIONS VAULT
- ELECTRICAL MANHOLE
- ELECTRICAL HANDHOLE
- COMMUNICATIONS MANHOLE
- PULL BOX
- POWER POLE
- LIGHT POLE
- GAS MARKER
- GUY WIRE
- STREET SIGN
- VALVE
- FIRE HYDRANT
- CHAMBER
- SIAMSE CONNECTION
- POST INDICATOR VALVE
- POST/BOLLARD
- SOIL BORING LOCATION
- EXISTING GEOTHERMAL WELLS
- SD - STORM SEWER
- C - UNDERGROUND GAS MAIN
- UE - UNDERGROUND ELECTRIC
- OE - OVERHEAD ELECTRIC
- UC - UNDERGROUND COMMUNICATIONS
- SAN - SANITARY SEWER
- WTR - WATER MAIN
- FENCE
- 800 - INDEX CONTOURS
- 799 - INTERMEDIATE CONTOURS
- DEMO EXISTING UTILITY
- DEMO EXISTING CURB, AND CONCRETE
- REMOVE EXISTING ASPHALT
- SAW CUT LINE
- DECIDUOUS TREE, LESS THAN 6" DIA. UNLESS OTHERWISE NOTED
- EVERGREEN TREE, LESS THAN 6" DIA. UNLESS OTHERWISE NOTED

NOTES:

- PLEASE NOTE THIS PLAN IS BASED UPON SURVEYED INFORMATION AVAILABLE AT THE TIME OF SURVEY COMBINED WITH PHASE 1 DESIGN PLANS. SINCE THIS DESIGN PLAN IS BEING DEVELOPED DURING CONSTRUCTION OF PHASE 1 THE CONTRACTOR IS TO VERIFY THE EXISTENCE OF ALL CURRENTLY DEPICTED ITEMS IN FIELD PRIOR TO COMMENCING WITH DEMOLITION AND CONSTRUCTION ACTIVITIES.

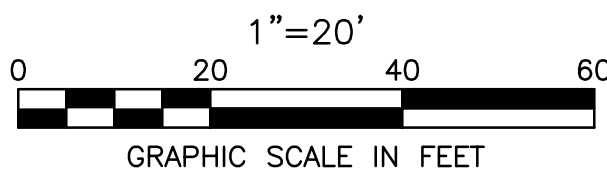
THIS PLAN IS BASED ON THE NAVD 1988 DATUM. THE CITY OF VIRGINIA BEACH CONTROL REFERENCE POINT USED FOR THE SURVEY AND DESIGN OF THIS PLAN IS # 1 ELEVATION.

THE MERIDIAN SOURCE OF THIS PLAN IS BASED ON THE VIRGINIA STATE PLAN COORDINATE SYSTEM, SOUTH ZONE, NAD 1983/1993 (HARN). COORDINATE VALUES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.

BENCHMARK:

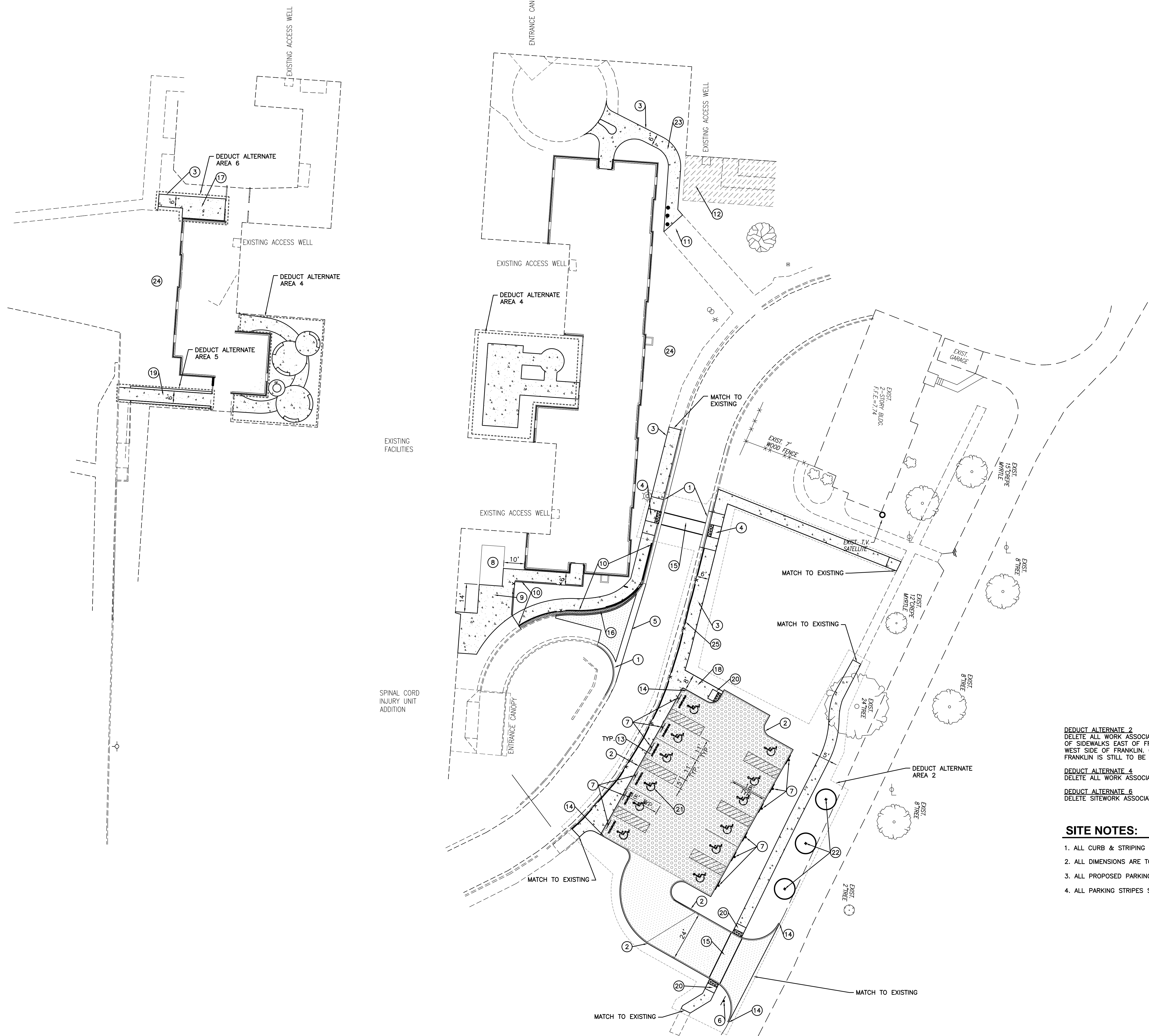
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- | <b>LEGEND</b>   |   |
|---|---|
|  | DRIVEWAY PAVEMENT – SEE DETAIL SHEET C502             |
|  | PERMEABLE PAVEMENT (CONCRETE) – SEE DETAIL SHEET C502 |
|  | CONCRETE SIDEWALK – SEE DETAIL SHEET C502             |
|  | HANDICAP RAMP – SEE DETAIL SHEET C502                 |

○ **SITE PLAN KEYNOTES :**

1. COMBINATION 6" STANDARD CURB AND GUTTER SECTION SEE SHEET C502
2. 6" BARRIER CURB - SEE SHEET C502
3. 6" CONCRETE WALK - SEE SHEET C502
4. NON STANDARD ACCESSIBLE RAMP WITH TRUNCATED DONE TACTILE WARNING STRIP SEE SHEET C502 FOR DETAIL.
5. 3' VALLEY GUTTER SEE SHEET C502
6. STOP SIGN
7. ACCESSIBLE SIGN SEE SHEET C502
8. RELOCATED SUN ROOM STRUCTURE. REFER TO ARCH. PLANS FOR DETAILS
9. CONCRETE PATIO AREA
10. 42" HIGH ALUMINUM FENCE. SEE ARCHITECTURAL PLANS FOR DETAIL
11. BOLLARD. REFER TO SHEET C503.
12. FUTURE BUILDING ADDITION
13. PARKING BLOCK
14. 3' FLUSH TO FULL HEIGHT CURB TRANSITION
15. PROPOSED 6' CROSSWALK WITH 6" WHITE STRIPING
16. 4" THICK CONCRETE SLOPE TRANSITION AREA
17. PROPOSED CONCRETE SECTION AREA. SEE ARCH. PLANS
18. 8" CONCRETE WALK
19. HC ACCESSIBLE RAMP. SEE SHEET C502 FOR DETAIL
20. VDOT TYPE CG-12 HANDICAP RAMP SEE SHEET C502
21. HANDICAPPED PARKING SYMBOL SEE SHEET C502
22. PROPOSED LOCATION OF RELOCATED TREE. CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL PLACEMENT LOCATION.
23. TEMPORARY ALL WEATHER PEDESTRIAN ACCESS TO BE MAINTAINED IN SAME ALIGNMENT AS PROPOSED WALK DURING CONSTRUCTION.
24. SAFETY CONSTRUCTION FENCE AND GATED ACCESS TO ENCLOSED ALL VERTICAL ONGOING CONSTRUCTION ACTIVITIES.
25. INSTALL 42" HIGH ADA HANDRAIL ALONG EDGE OF SIDEWALK AREA. HAND RAIL TO HAVE 2ND ALONG ENTRANCE LENGTH TO PREVENT WHEELCHAIR BOUND INDIVIDUALS FROM BEING ABLE TO PASS BETWEEN TOP RAIL AND TOP OF SIDEWALK.

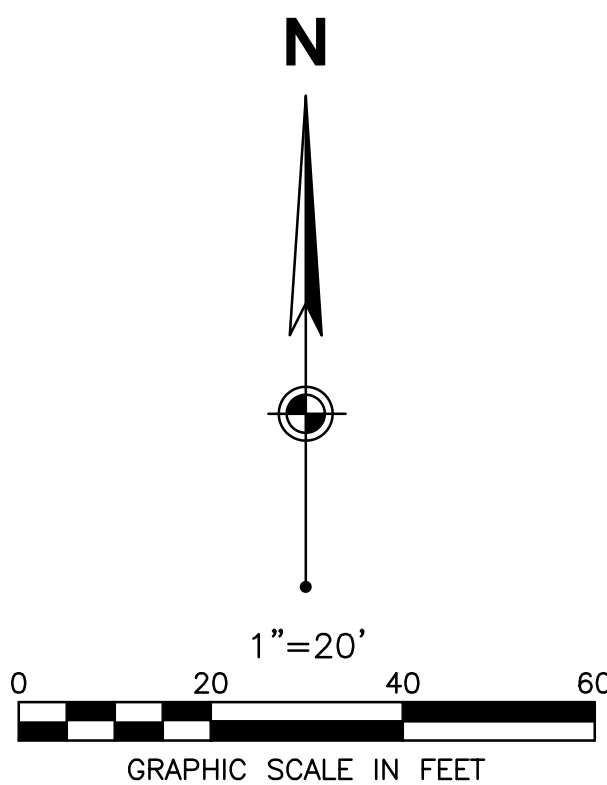
DEDUCT ALTERNATE 2  
DELETE ALL WORK ASSOCIATED WITH CONSTRUCTION OF PARKING LOT AND ADJUSTMENT OF SIDEWALKS EAST OF FRANKLIN. DELETE H.C. RAMP CONSTRUCTION IN SIDEWALK ON WEST SIDE OF FRANKLIN. CONSTRUCTION OF RETENTION BASIN ON EAST SIDE OF FRANKLIN IS STILL TO BE CONDUCTED.

DEDUCT ALTERNATE 4  
DELETE ALL WORK ASSOCIATED WITH THE COURTYARD FIT OUT

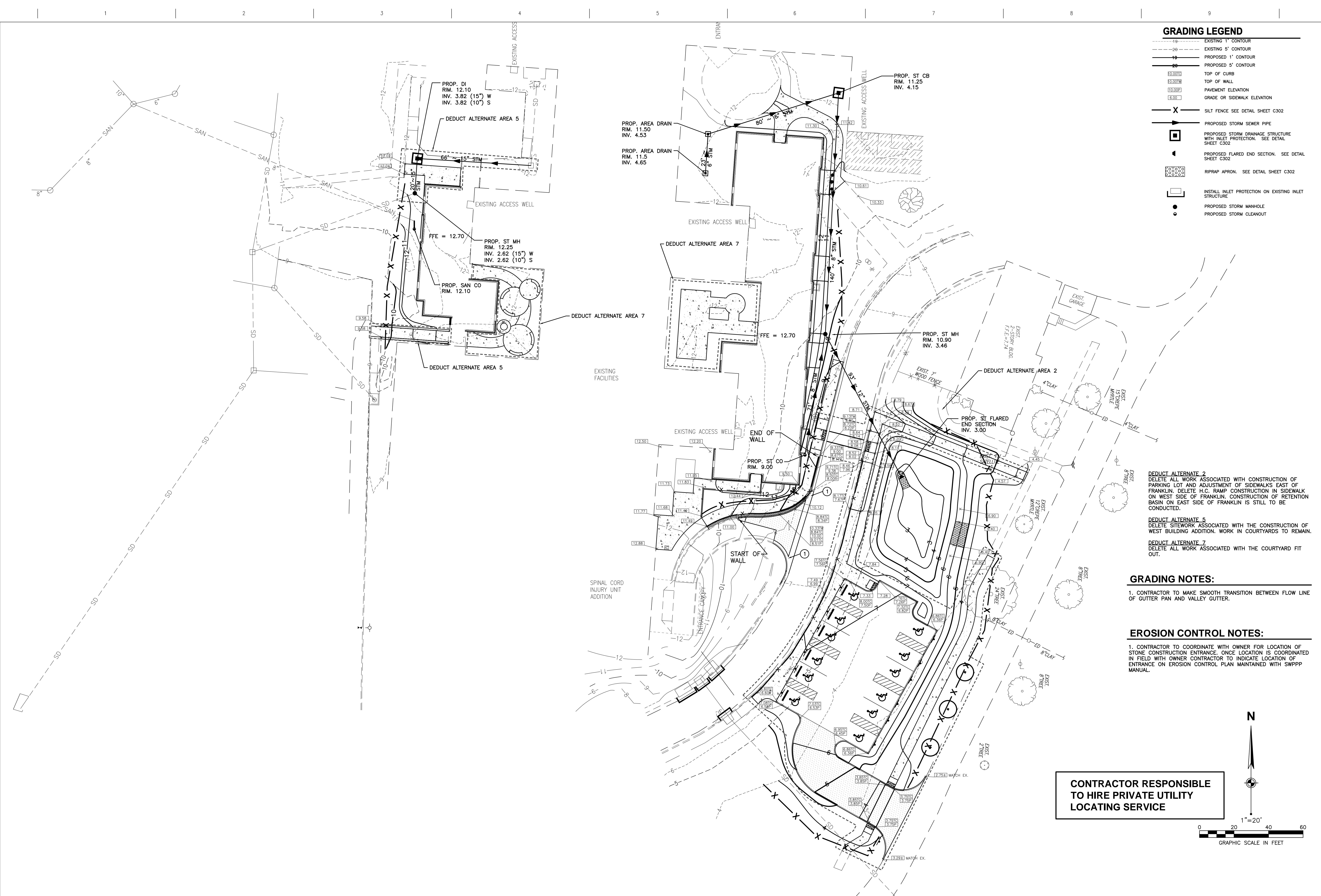
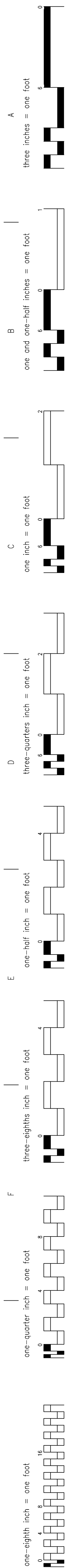
DEDUCT ALTERNATE 6  
DELETE SITEWORK ASSOCIATED WITH THE CONSTRUCTION OF WEST BUILDING ADDITION

**SITE NOTES:**

1. ALL CURB & STRIPING RADII SHALL BE 5' UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL PROPOSED PARKING SPACES ARE 8' X 18' UNLESS OTHERWISE NOTED.
4. ALL PARKING STRIPES SHALL BE STANDARD WHITE THERMOPLASTIC AND 4" WIDE.

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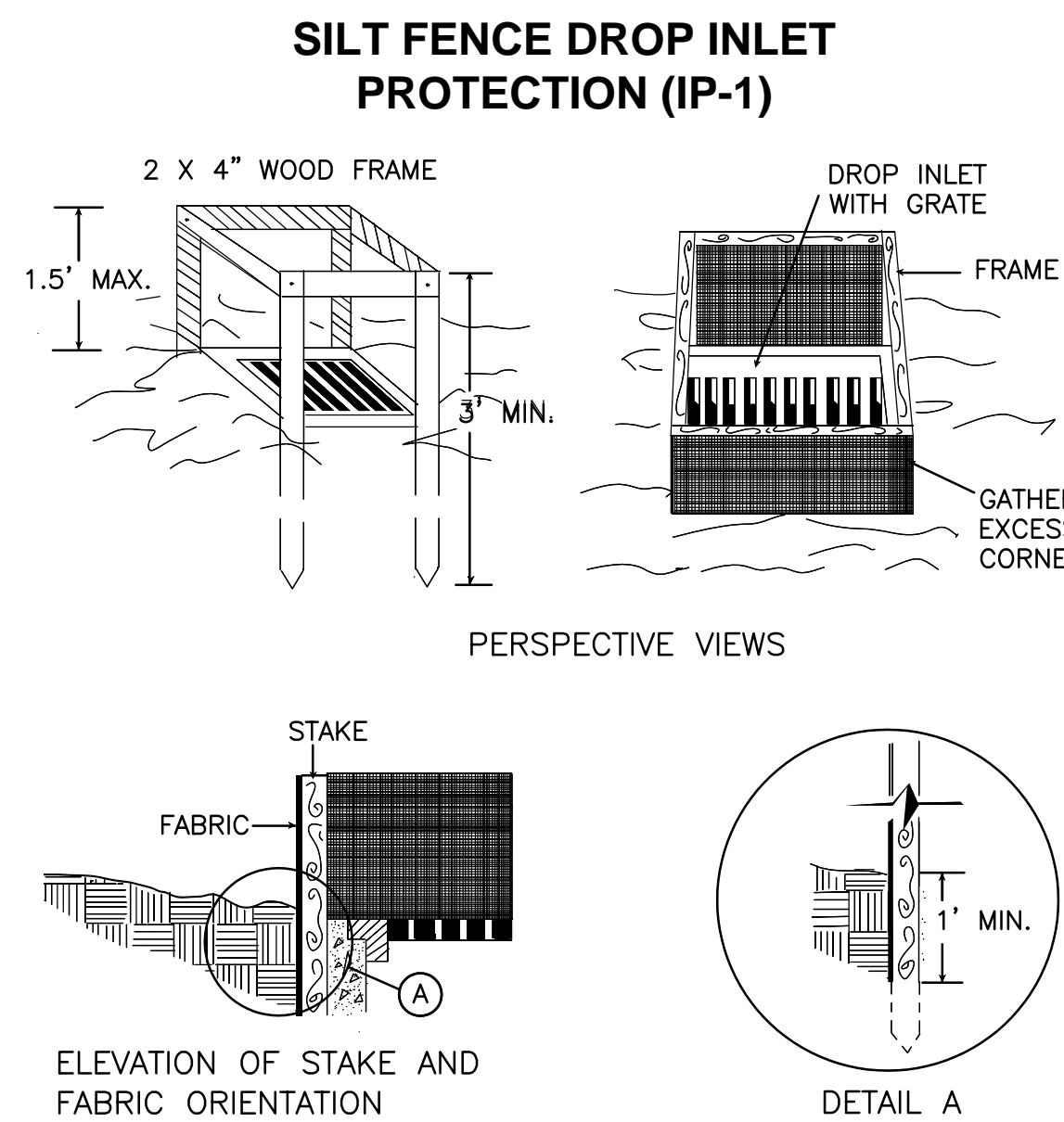




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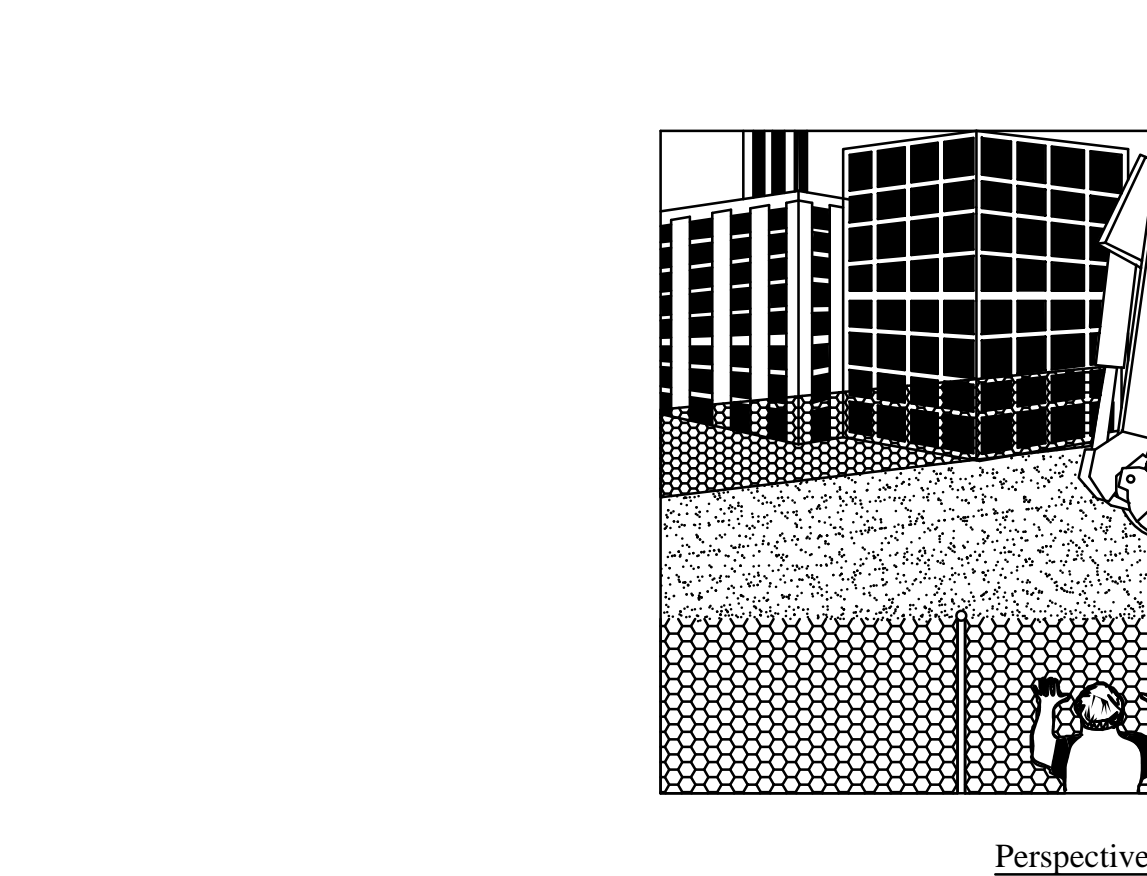
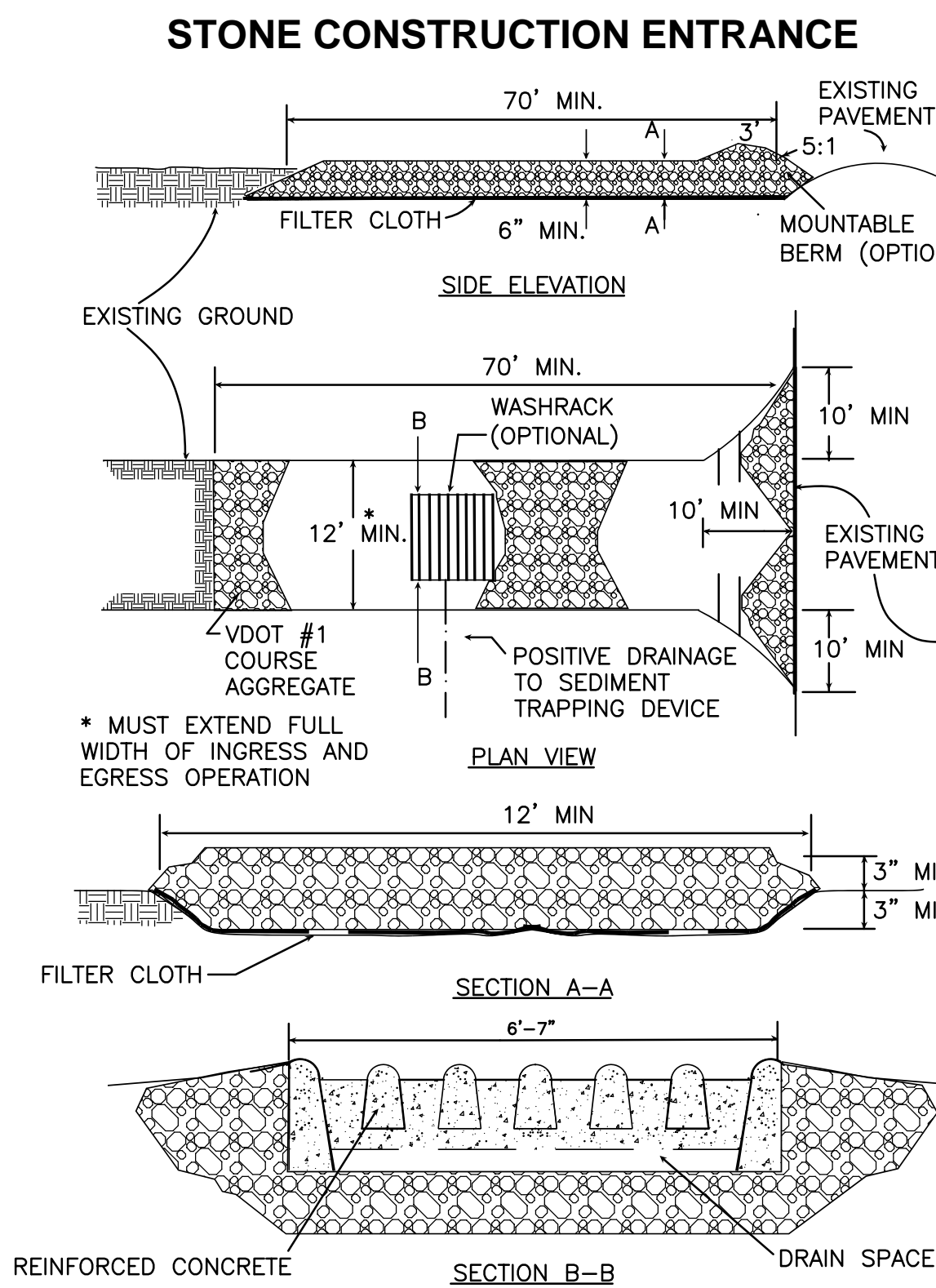
three inches = one foot  
one and one-half inches = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot



**SPECIFIC APPLICATION**

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

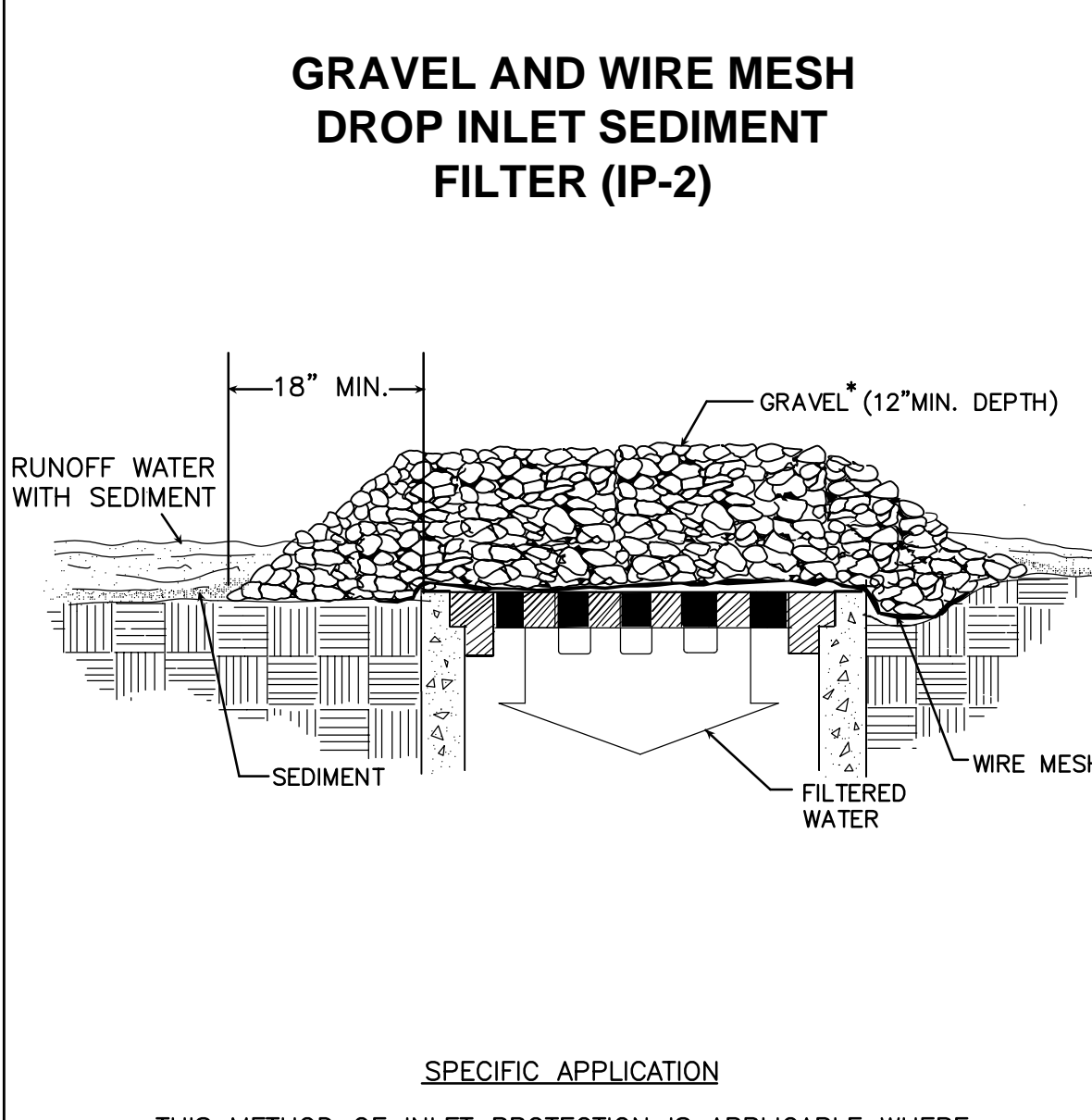
SOURCE: NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL 1988 PLATE 3.07-1



**NOTES:**

1. APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, GABION BASKET, OR CONCRETE.
2. L<sub>o</sub> IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4.
3. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES.

SOURCE: VA. DSWC

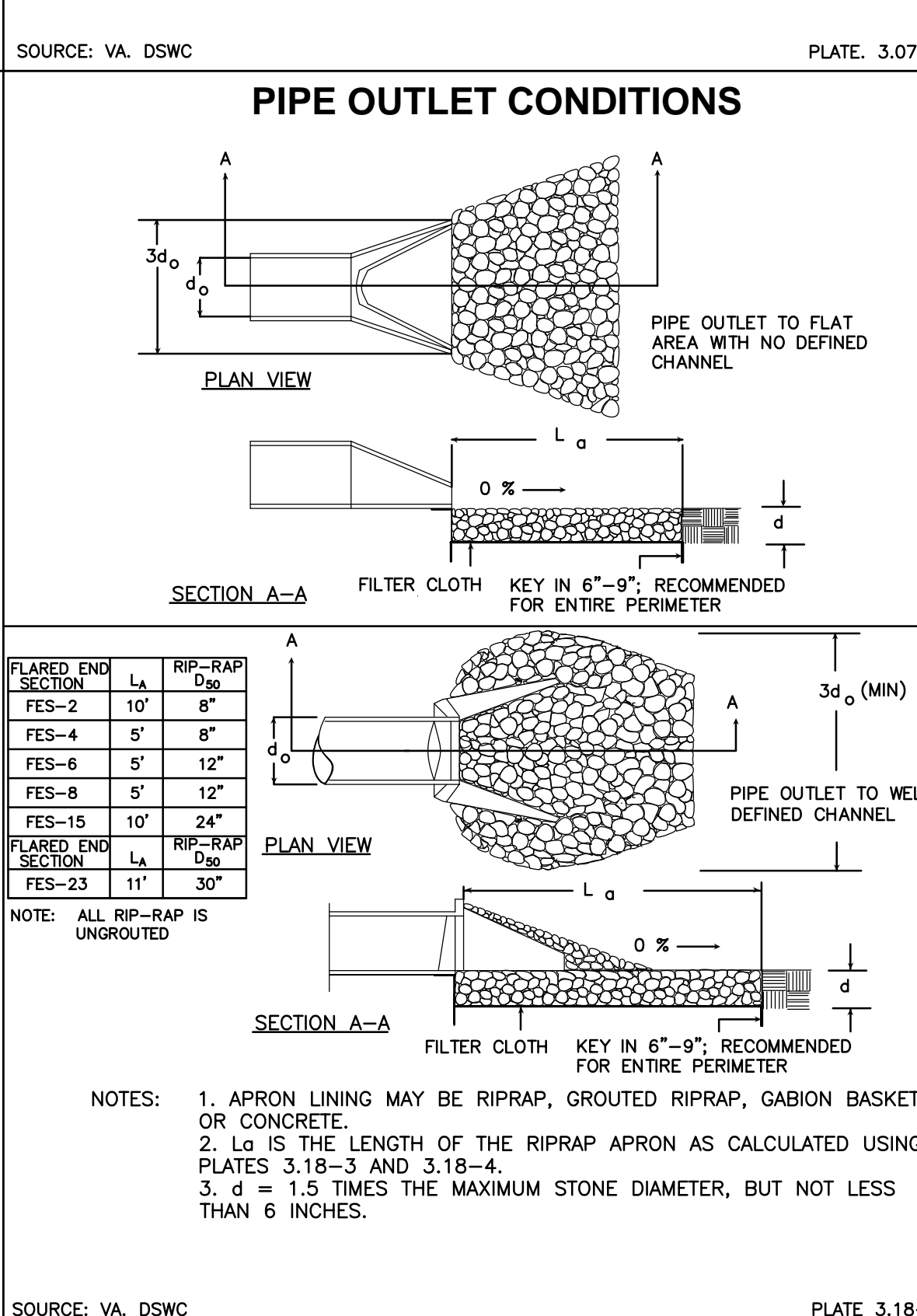


**SPECIFIC APPLICATION**

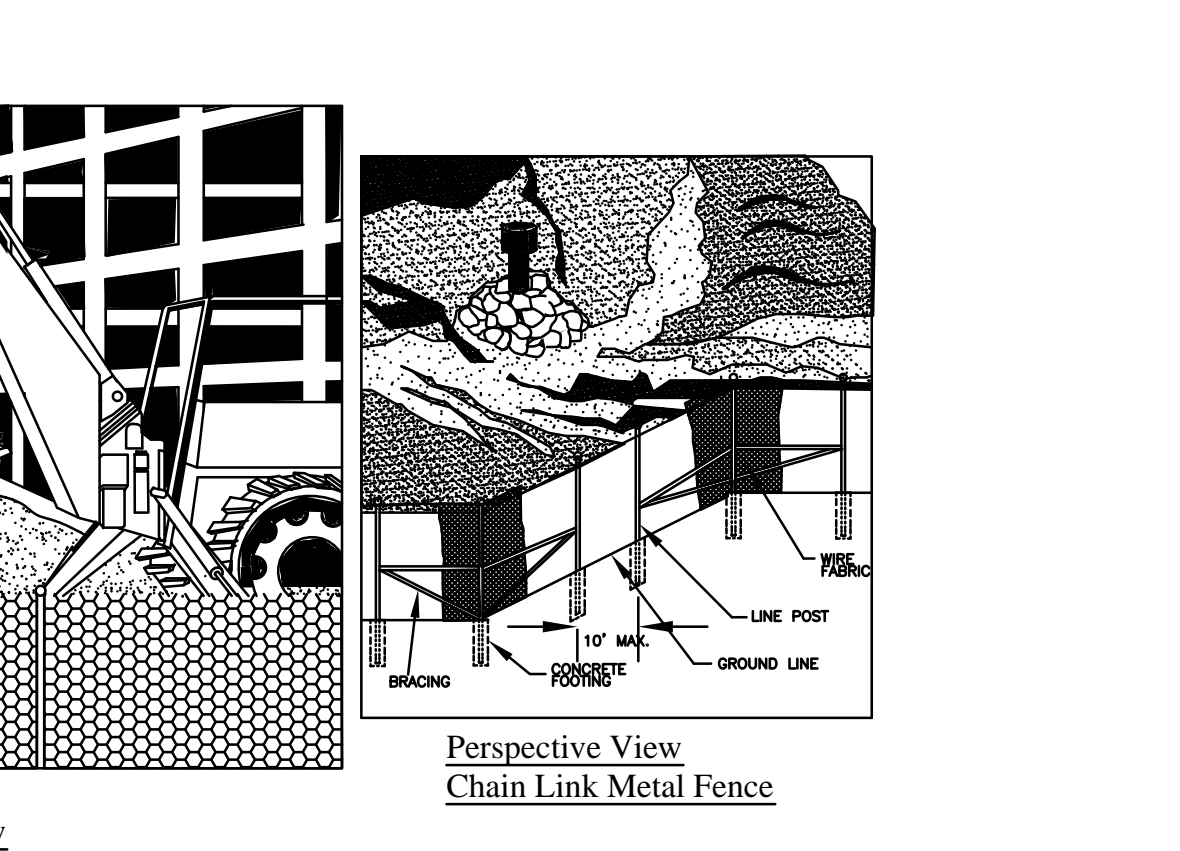
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

\* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

SOURCE: VA. DSWC



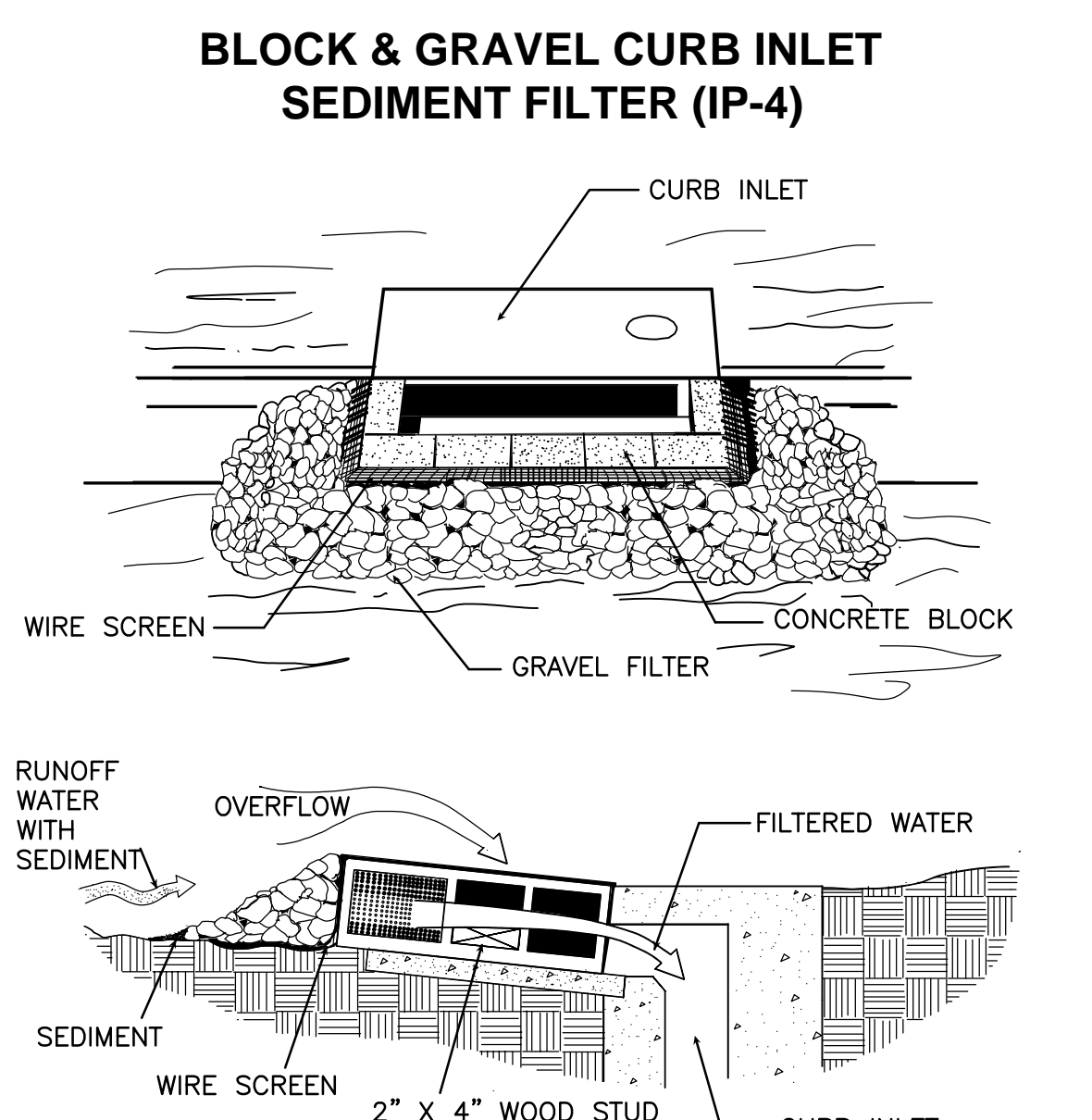
SOURCE: ADAPTED FROM INSTALLATION OF STRAW AND FABRIC FILTER BARRIERS FOR SEDIMENT CONTROL SHERWOOD & WYANT



**NOTES:**

1. SET POSTS AND EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. STAPLE WIRE FENCING TO THE POSTS.
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

SOURCE: ADAPTED FROM INSTALLATION OF STRAW AND FABRIC FILTER BARRIERS FOR SEDIMENT CONTROL VA. DSWC SHERWOOD AND WYANT

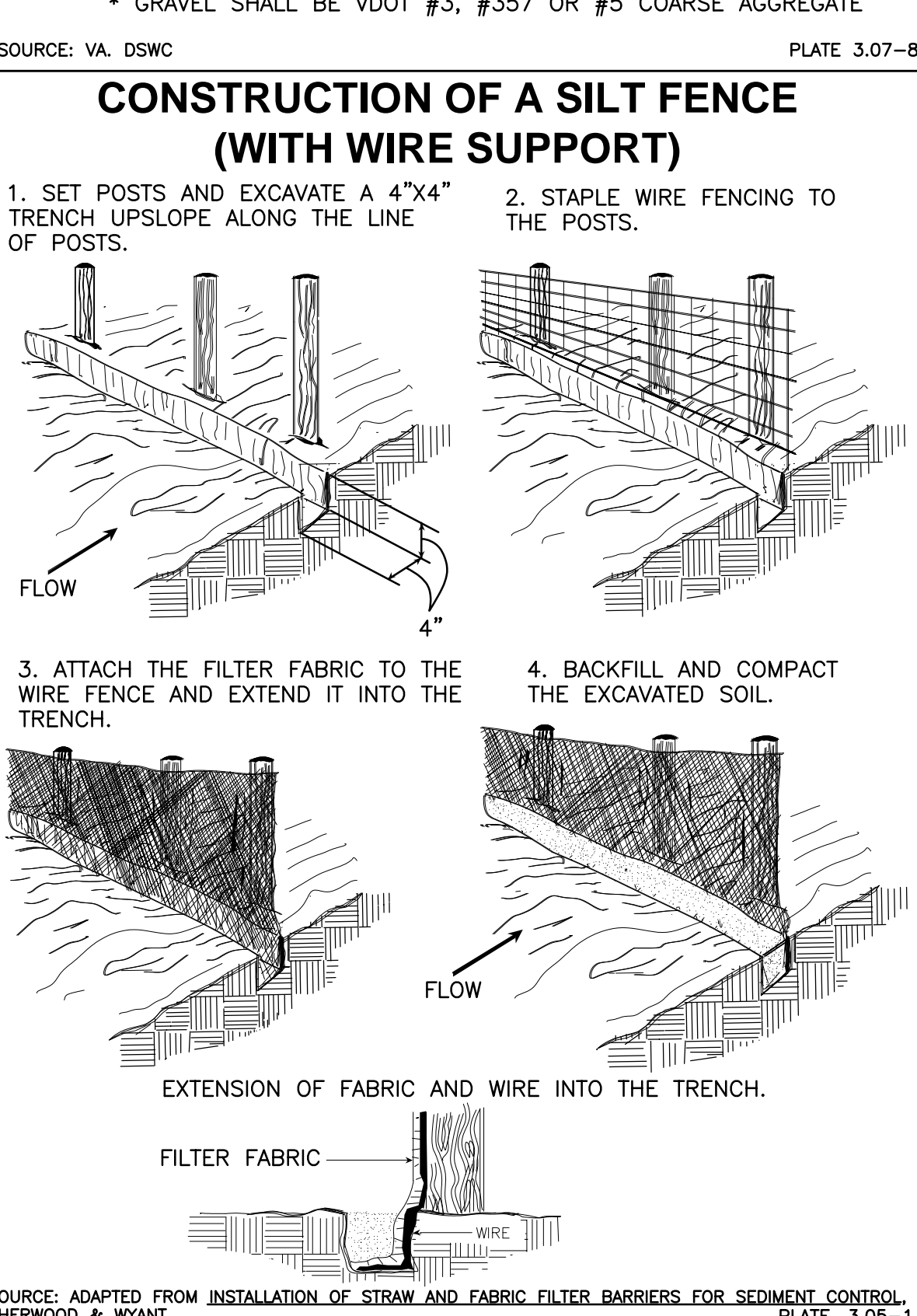


**SPECIFIC APPLICATION**

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE STRUCTURE.

\* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE

SOURCE: VA. DSWC



1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-745-4884 or at <http://sudan.cses.vt.edu/html/Turf/turfpublications/publications2.html>

2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

Seeding Date	Annual Ryegrass
February, March - April	Annual Ryegrass
May 1 <sup>st</sup> - August	Annual Ryegrass
September, October - November 15 <sup>th</sup>	Annual Ryegrass
November 16 <sup>th</sup> - January	Winter Ryegrass

3 - May through October, use hulled seed. All other seeding periods, use unhulled seed. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30-40 lbs/acre.

**FERTILIZER & LIME**

• Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)  
• Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

**NOTE:**

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.

• When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/swie&html/pubs>

**EROSION CONTROL NOTES:**

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE VA AND VDCR MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

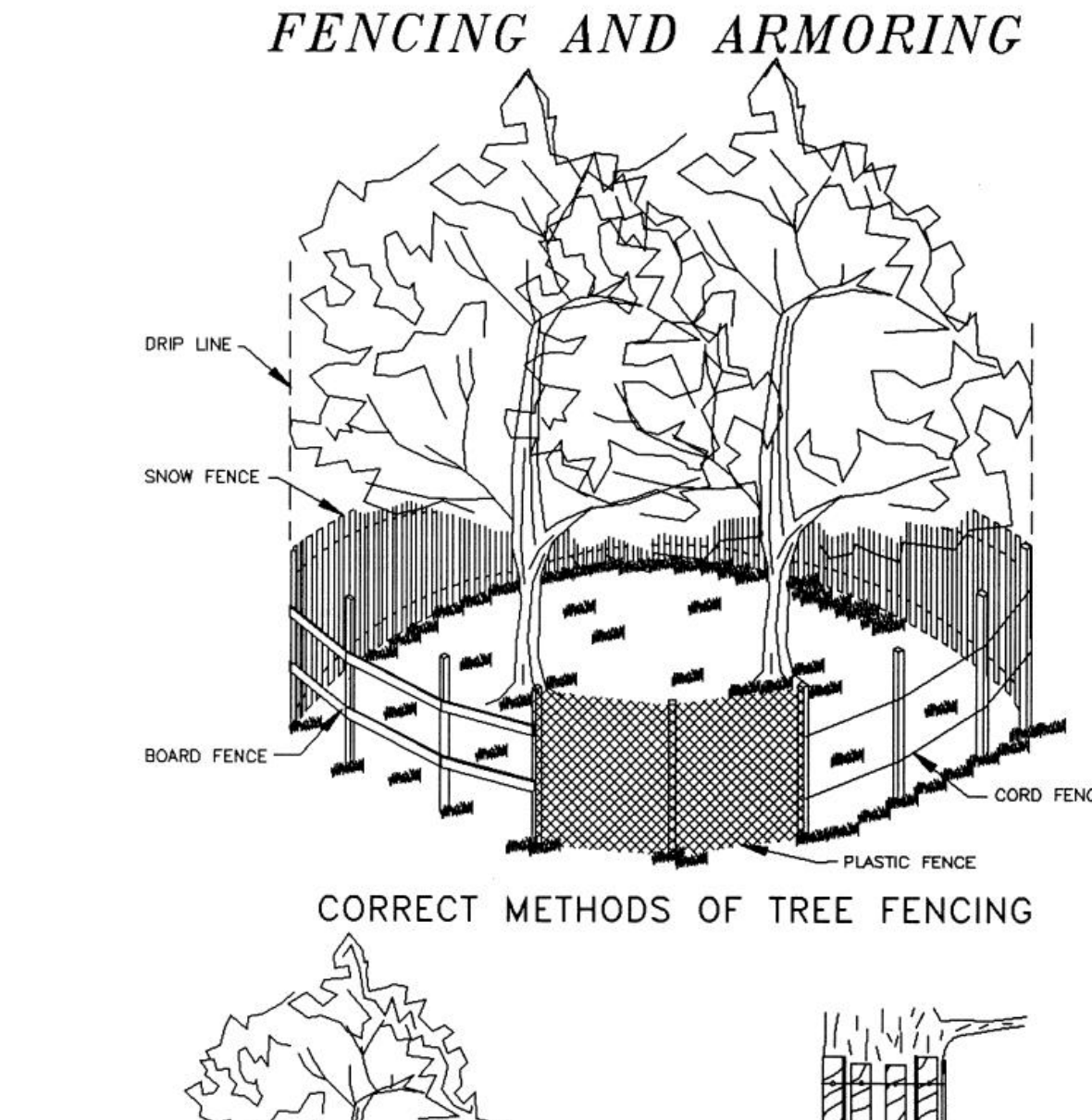
ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT, ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.



**PERMANENT SEEDING SPECIFICATIONS FOR COASTAL PLAIN AREA**

LAND USE	SPECIES	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue <sup>1</sup> or Bermudagrass <sup>1</sup>	175 - 200 lbs.
High-Maintenance Lawn	Tall Fescue <sup>1</sup> or Bermudagrass <sup>1</sup> (seed) or Bermudagrass <sup>1</sup> (by other vegetative establishment method, see Std. & Spec. 3.34)	75 lbs. 200-250 lbs. 40 lbs. (unhulled) 30 lbs. (hulled)
General Slope (3:1 or less)	Tall Fescue <sup>1</sup> Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop <sup>2</sup>	128 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue <sup>1</sup> Bermudagrass <sup>1</sup> Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop <sup>2</sup> Sericea Lespedeza <sup>3</sup>	93-108 lbs. 0-15 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-745-4884 or at <http://sudan.cses.vt.edu/html/Turf/turfpublications/publications2.html>

2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

Seeding Date	Annual Ryegrass
February, March - April	Annual Ryegrass
May 1 <sup>st</sup> - August	Annual Ryegrass
September, October - November 15 <sup>th</sup>	Annual Ryegrass
November 16 <sup>th</sup> - January	Winter Ryegrass

3 - May through October, use hulled seed. All other seeding periods, use unhulled seed. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30-40 lbs/acre.

**FERTILIZER & LIME**

• Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)  
• Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

**NOTE:**

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.

• When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/swie&html/pubs>

**EROSION CONTROL NOTES:**

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE VA AND VDCR MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT, ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

**SAFETY FENCE - 7 feet tall**

N.T.S. Source: Virginia Erosion And Sediment Control Handbook Plate 3.01-1

**SAFETY FENCE - 7 feet tall**

N.T.S. Source: Virginia Erosion And Sediment Control Handbook Plate 3.01-1

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**SAFETY FENCE - 7 feet tall**

N.T.S. Source: Virginia Erosion And Sediment Control Handbook Plate 3.01-1

TABLE 3.31-B (Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS		
APPLICATION DATES	SPECIES	APPLICATION RATES
Sept 1 - Feb. 15	50/50 Mix of Annual Ryegrass (olium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (olium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

FERTILIZER & LIME		
• Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.) • Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)		

**NOTE:**

- 1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- 2 - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
- 3 - When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/swie&html/pubs>

TABLE 3.32-E (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR COASTAL PLAIN AREA		
LAND USE	SPECIES	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue <sup>1</sup> or Bermudagrass <sup>1</sup>	175 - 200 lbs.
High-Maintenance Lawn	Tall Fescue <sup>1</sup> or Bermudagrass <sup>1</sup> (seed) or Bermudagrass <sup>1</sup> (by other vegetative establishment method, see Std. & Spec. 3.34)	75 lbs. 200-250 lbs. 40 lbs. (unhulled) 30 lbs. (hulled)
General Slope (3:1 or less)	Tall Fescue <sup>1</sup> Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop <sup>2</sup>	128 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue <sup>1</sup> Bermudagrass <sup>1</sup> Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop <sup>2</sup> Sericea Lespedeza <sup>3</sup>	93-108 lbs. 0-15 lbs. 2 lbs. 20 lbs. TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-745-4884 or at <http://sudan.cses.vt.edu/html/Turf/turfpublications/publications2.html>

2 - Use seasonal nurse crop in accordance with seeding dates as stated below:

Seeding Date	Annual Ryegrass
February, March - April	Annual Ryegrass
May 1 <sup>st</sup> - August	Annual Ryegrass
September, October - November 15 <sup>th</sup>	Annual Ryegrass
November 16 <sup>th</sup> - January	Winter Ryegrass

3 - May through October, use hulled seed. All other seeding periods, use unhulled seed. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30-40 lbs/acre.

FERTILIZER & LIME		
• Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.) • Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)		

**NOTE:**

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.

• When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/swie&html/pubs>

**EROSION CONTROL NOTES:**

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE VA AND VDCR MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

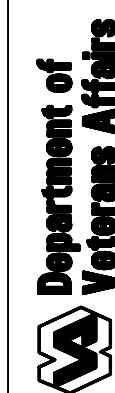
ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

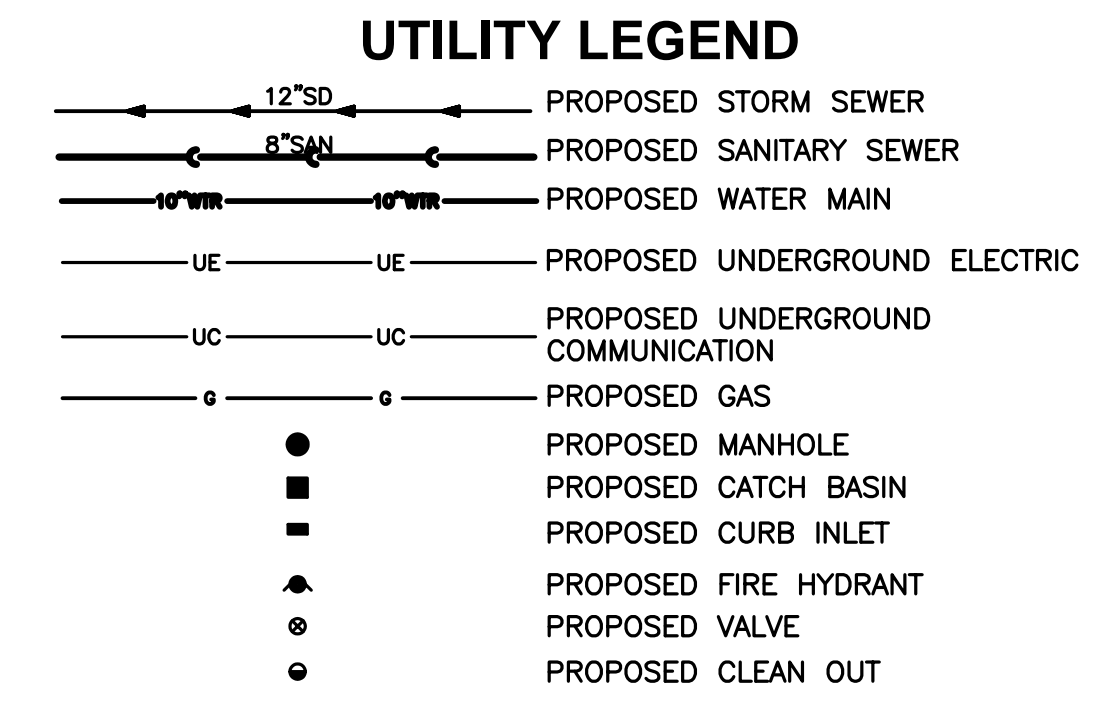
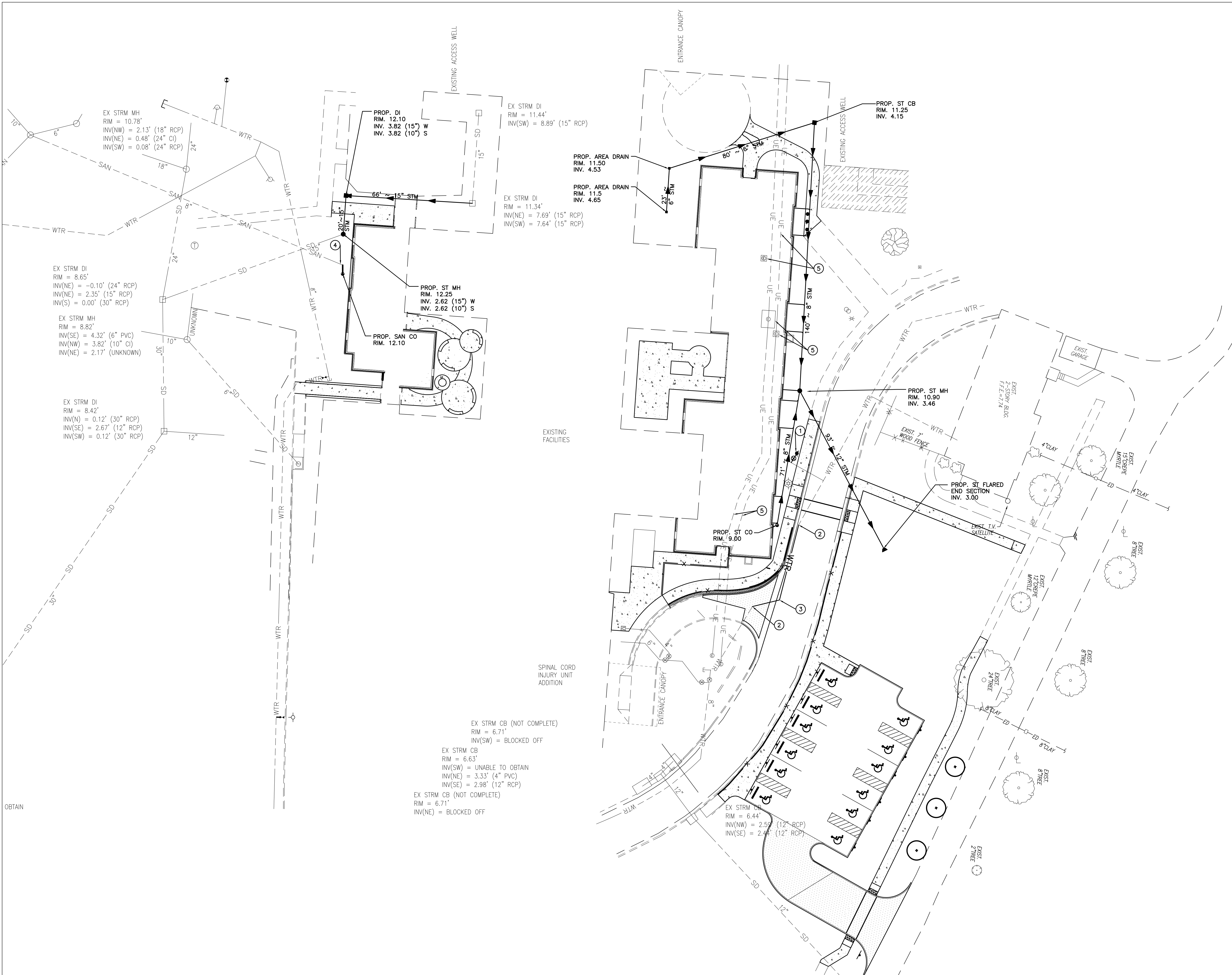
ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT, ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

Revisions	Date	CONSULTANTS:	ARCHITECT/ENGINEERS:	Drawing Title	Project Title	Date
				Hampton VA, VAMC Renovate / Expand SCI, Phase II, 590-911 Project Phase	EROSION CONTROL DETAILS AND NOTES	04/26/2013
				Approved: Project Director	Building Number 137	Project No. 590-911 RDC/CPA Project No. 11004.00
					Checked SM	Drawing Number 137-C302
					Drawn DF AND LB	Dwg. 06 of 135
					Location Hampton, VA	

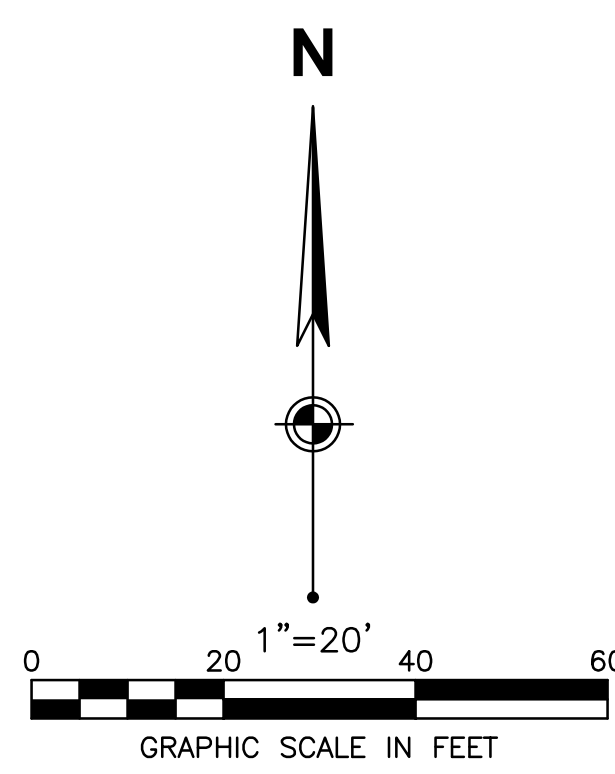






○ **UTILITY NOTES:**

1. PROPOSED LOCATION OF RELOCATED FIRE HYDRANT ASSEMBLY. CONTRACTOR TO FIELD VERIFY CONNECTION POINT LOCATION PRIOR TO PERFORMING HYDRANT INSTALLATION.
2. APPROXIMATE LOCATION OF NEW CONNECTION TO EXISTING WATER MAIN. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING MAIN PRIOR TO INSTALLATION OF PROPOSED LINE.
3. WATER BEND.
4. CONTRACTOR TO CONNECT NEW SANITARY DISCHARGE TO EXISTING SANITARY LINE WITH WYE CONNECTION.
5. EXISTING UNDERGROUND ELECTRICAL VAULTS AND CONDUITS TO REMAIN IN PLACE. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DETAIL OF HOW THESE ARE TO BE INCORPORATED INTO THE NEW STRUCTURE.



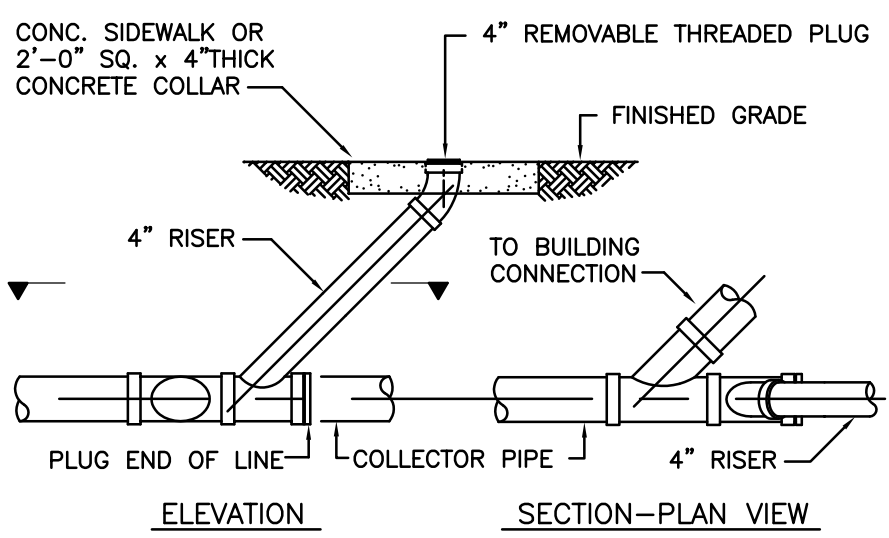
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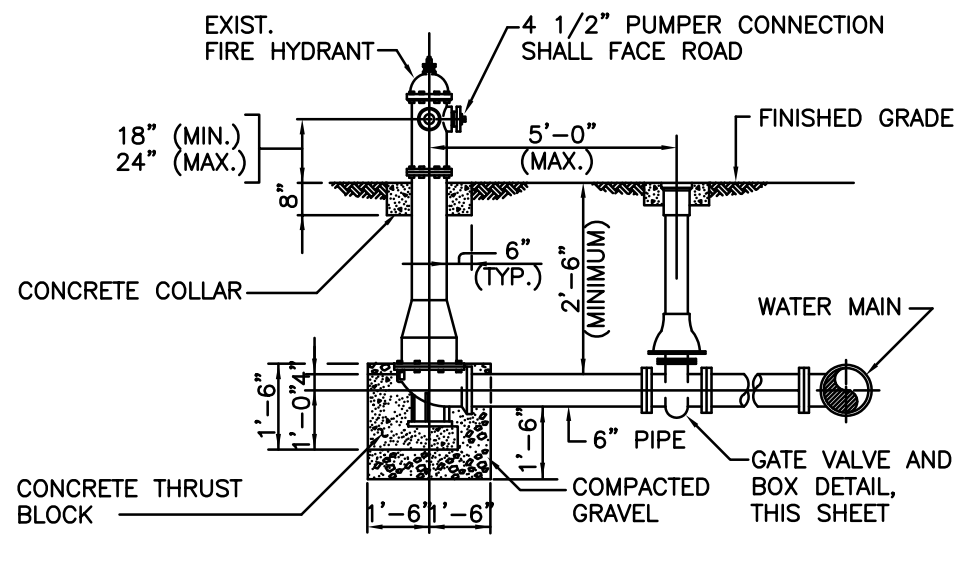




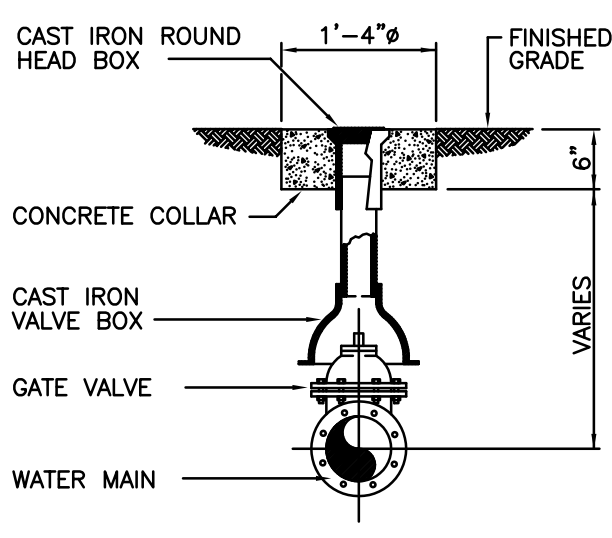
three inches = one foot  
one and one-half inches = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot



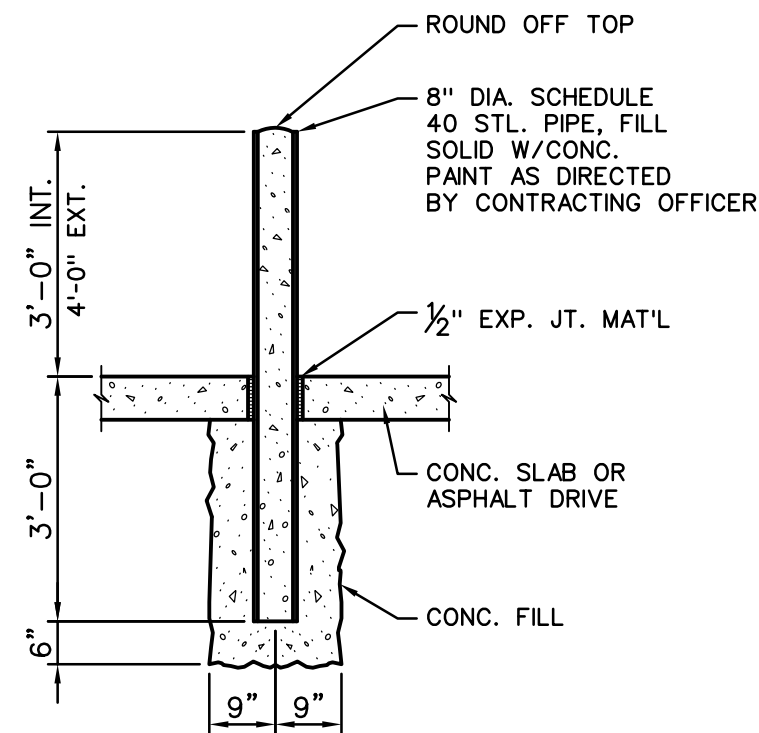
CLEANOUT  
NTS



FIRE HYDRANT  
NTS

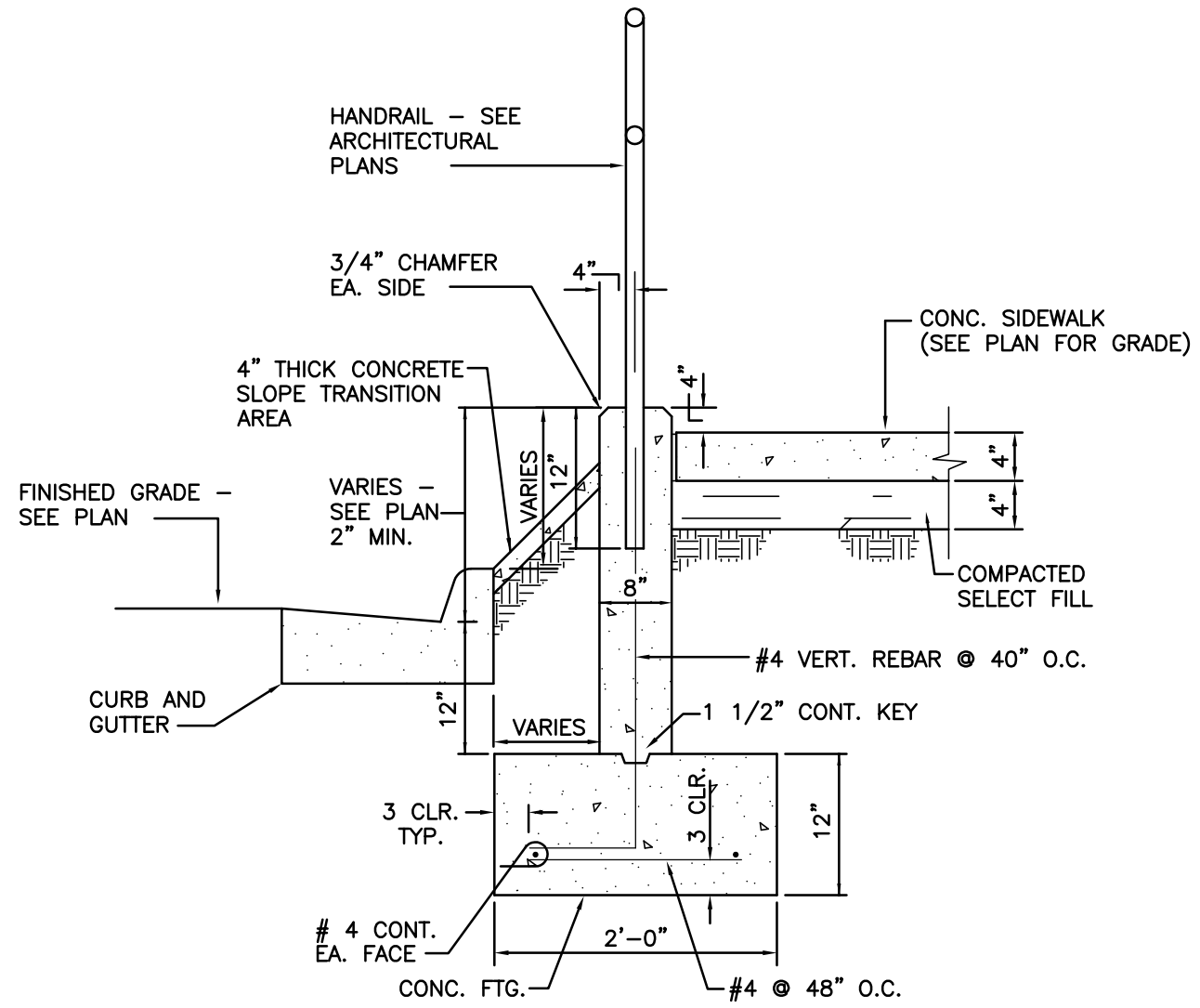


GATE VALVE AND BOX  
NTS

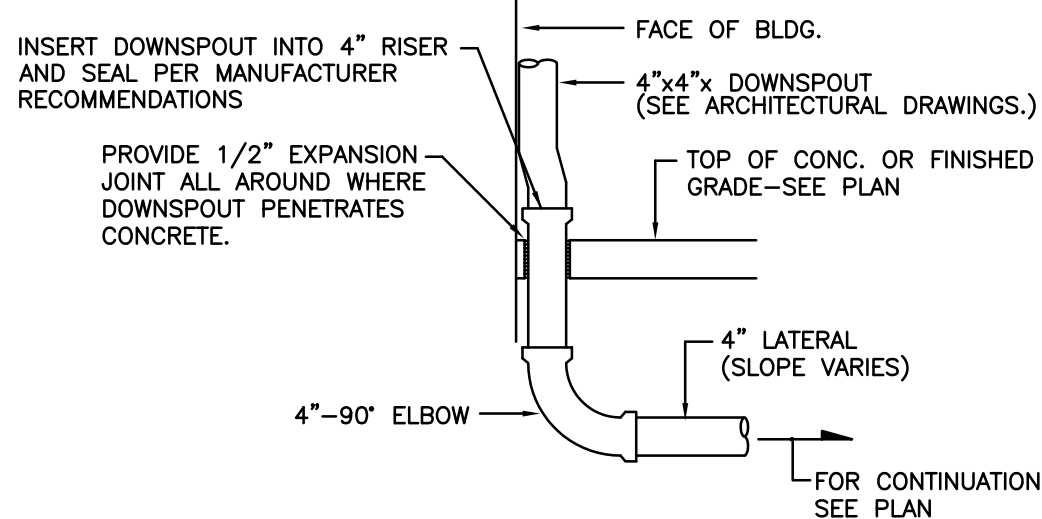


NOTE:  
BOLLARDS SHALL BE LOCATED A MINIMUM 12" FROM BUILDING WALL OR FENCE. WHEN BOLLARDS ARE LOCATED NEAR OVERHEAD DOORS THEY SHALL LINE UP WITH THE EDGE OF OVERHEAD DOOR.

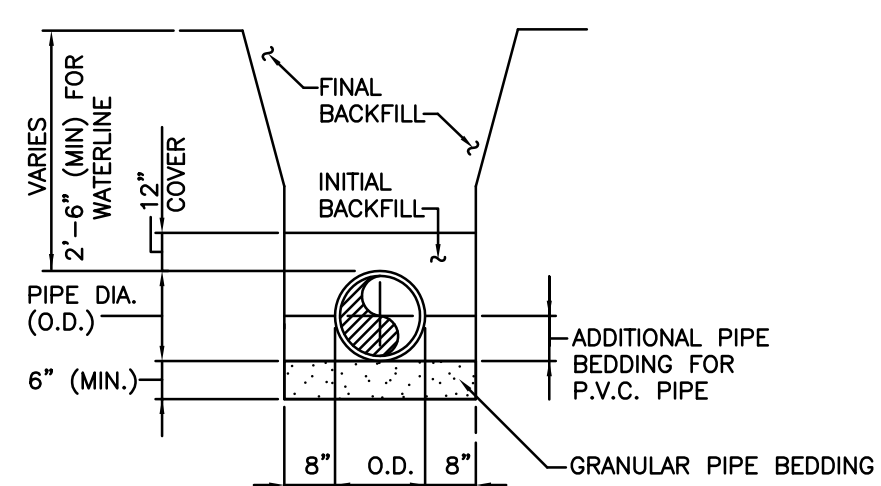
PIPE BOLLARD DETAIL  
NTS



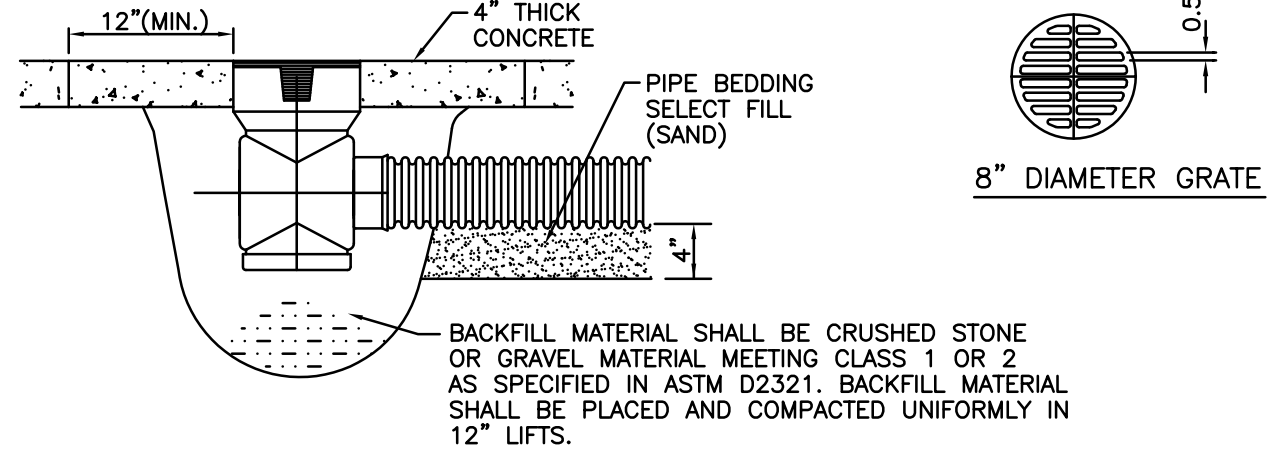
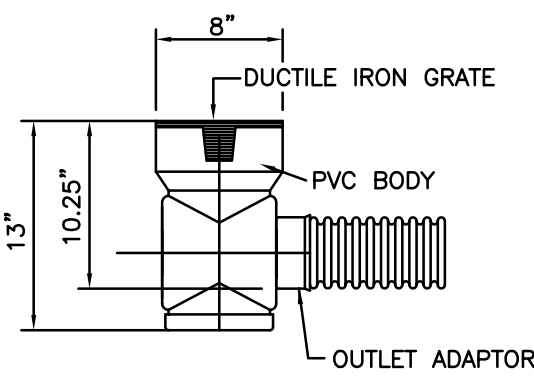
RETAINING WALL WITH HANDRAIL  
NTS



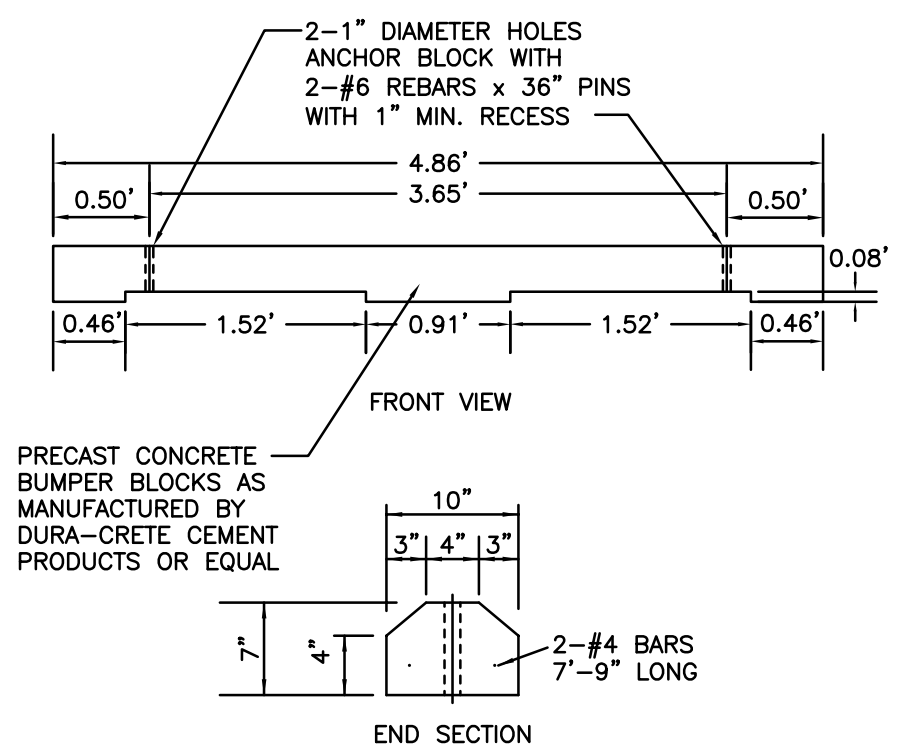
ROOF DRAIN DOWNSPOUT CONNECTION  
NTS



TYPICAL WATERMAIN PIPE BEDDING  
NTS



8" YARD INLET DETAILS  
NTS



PRECAST CONCRETE WHEEL STOP  
NTS

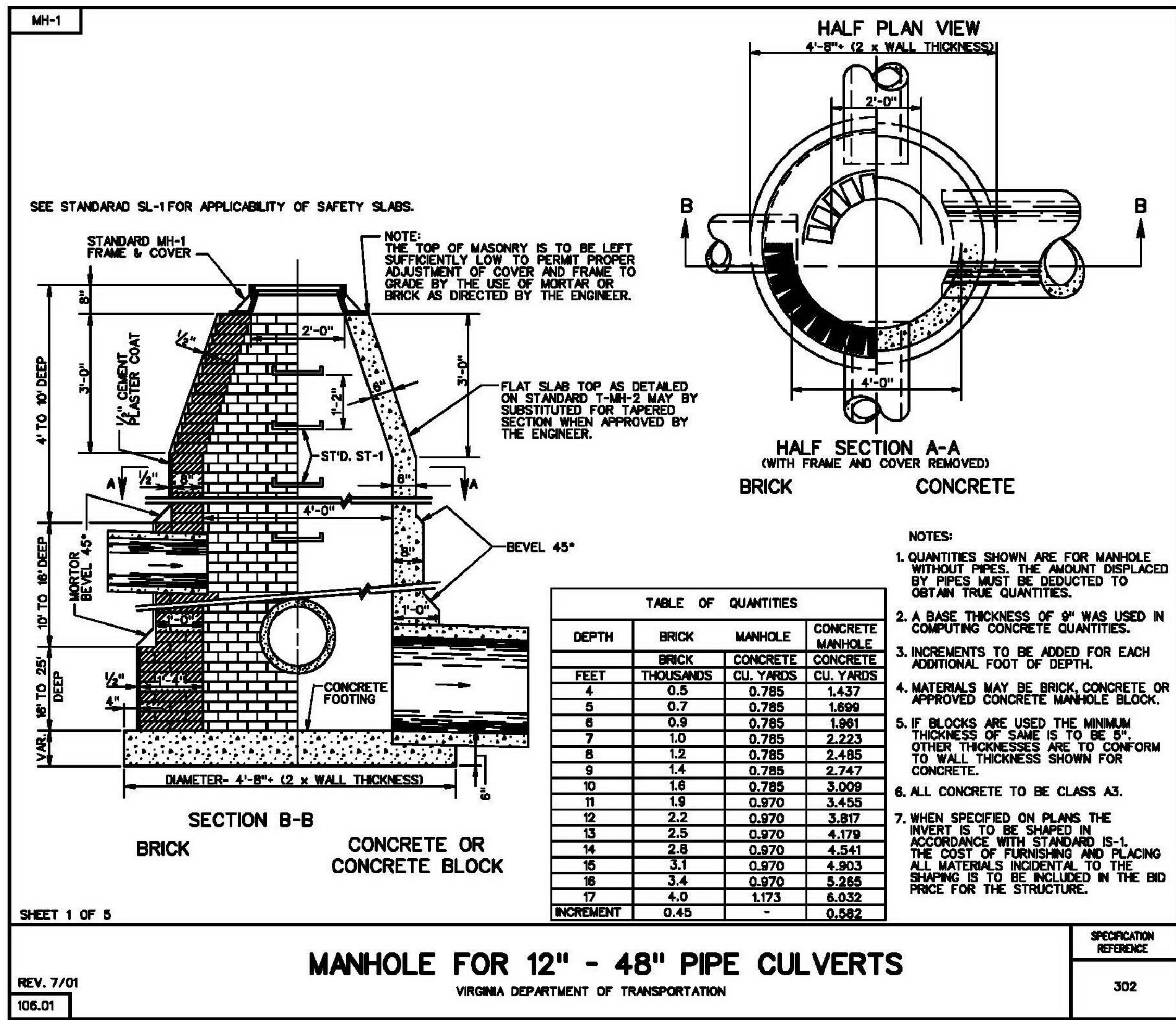


TABLE OF QUANTITIES			
DEPTH	BRICK	MANHOLE CONCRETE	CONCRETE MANHOLE CONCRETE
FEET	THOUSANDS	CU. YARDS	CU. YARDS
4	0.5	0.785	1.437
5	0.7	0.785	1.899
6	0.9	0.785	1.981
7	1.0	0.785	2.223
8	1.2	0.785	2.445
9	1.4	0.785	2.747
10	1.6	0.785	3.009
11	1.9	0.970	3.455
12	2.2	0.970	3.877
13	2.5	0.970	4.179
14	2.8	0.970	4.541
15	3.1	0.970	4.803
16	3.4	0.970	5.285
17	4.0	1.173	6.032
INCREMENT	0.45	-	0.582

- NOTES:
1. QUANTITIES SHOWN ARE FOR MANHOLE WITHOUT PIPES. THE AMOUNT DISPLACED BY PIPES MUST BE DEDUCTED TO OBTAIN TRUE QUANTITIES.
  2. A BASE THICKNESS OF 9" WAS USED IN COMPUTING CONCRETE QUANTITIES.
  3. INCREMENTS TO BE ADDED FOR EACH ADDITIONAL FOOT OF DEPTH.
  4. MATERIALS MAY BE BRICK, CONCRETE OR APPROVED CONCRETE MANHOLE BLOCK.
  5. IF BLOCKS ARE USED THE MINIMUM THICKNESS OF SAME IS TO BE 6". OTHER THICKNESSES ARE TO CONFORM TO WALL THICKNESS SHOWN FOR CONCRETE.
  6. ALL CONCRETE TO BE CLASS A3.
  7. WHEN SPECIFIED ON PLANS THE INVERT IS TO BE SHAPED IN ACCORDANCE WITH STANDARD IS-1. THE COST OF FURNISHING AND PLACING ALL MATERIALS INCIDENTAL TO THE SHAPING IS TO BE INCLUDED IN THE BID PRICE FOR THE STRUCTURE.

CONSULTANTS:

ARCHITECT/ENGINEERS:



676 Independence Parkway, Suite 100  
Chesapeake, VA  
23320  
757-549-3549  
FAX: 757-549-3540

Drawing Title

Hampton VA, VAMC  
Renovate / Expand SCI,  
Phase II,  
590-911  
Project Phase

Approved: Project Director

Project Title

DETAILS

Project Phase

Building Number  
137

Checked  
SM

Drawn  
DF AND LB

Location

Hampton, VA

Date

04/26/2013

Project No.

590-911

RDC/CPA Project No. 11004.00

Drawing Number

137-C503

Dwg.

of 135

